

**SYSTEM AND METHOD FOR BROADBAND  
ANALYSIS OF TELEPHONE LOCAL LOOP**

**Abstract of the Disclosure**

A method and system analyzes a telephone local loop and includes a central office operatively connected to the telephone local loop. A bandwidth analysis  
5 system is operatively connected to the central office and operative for determining the physical loop faults within the loop; qualifying the local loop for a particular Digital Subscriber Line (DSL) technology; and  
10 quantifying the local loop by calculating the transmit signal Power Spectral Densities (PSD) and calculating upstream and downstream data rates for particular DSL technology.

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